

SEQUENCE LISTING

<110> Turner, C. Alexander Jr.
Mathur, Daniel
Mathur, Brian

<120> Novel Human Ion Channel Proteins and Polynucleotides Encoding the Same

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THE



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1. The first part of the document is a list of names and addresses, which appears to be a directory or a list of contacts. The names are written in a cursive script, and the addresses are listed below them.

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545															550															555															560																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Gly	Ser	Leu	Phe	Ser	Pro	Arg	Arg	Asn	Ser	Arg	Thr	Ser	Leu	Phe	Ser	565	Lys	Asp	Val	Gly	Ser	Glu	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	570	Thr	Pro	Ala	Asn	Leu	Ser	Gln	575	Val	Met	Leu	Ala	Val	Phe	Pro	Ala	Asn	Gly	Lys	580	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	585	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	590	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	600	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	610	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	620	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	625	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	630	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	640	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	650	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	660	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	670	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	680	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	690	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	700	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	710	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	720	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	730	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	740	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	750	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	760	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	770	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	780	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	790	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	800	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	810	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	820	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	830	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	840	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	850	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	860	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	870	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	880	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	890	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	900	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	910	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	920	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	930	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	940	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	950	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	960	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	970	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	980	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	990	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	1000	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	1010	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	1020	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	1030	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	1040	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	1050	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	1060	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	1070	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	1080	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	1090	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	1100	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	1110	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	1120	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	1130	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	1140	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	1150	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	1160	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	1170	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	1180	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	1190	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	1200	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	1210	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	1220	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	1230	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	1240	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	1250	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	1260	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	1270	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	1280	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	1290	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	1300	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	1310	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	1320	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	1330	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	1340	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	1350	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	1360	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	1370	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	1380	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	1390	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu	Ser	Gln	1400	Thr	Phe	Glu	Asp	Asn	Glu	Ser	Arg	Arg	Asn	Leu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 Met Asn Asn Leu Gln Ile Ala Val Asp Arg Met His Lys Gly Val Ala
 1010 1015 1020
 Tyr Val Lys Arg Lys Ile Tyr Glu Phe Ile Gln Gln Ser Phe Ile Arg
 1025 1030 1035 1040
 Lys Gln Lys Ile Leu Asp Glu Ile Lys Pro Leu Asp Asp Leu Asn Asn
 1045 1050 1055
 Lys Lys Asp Ser Cys Met Ser Asn His Thr Xaa Glu Ile Gly Lys Asp
 1060 1065 1070
 Leu Asp Tyr Leu Lys Asp Val Asn Gly Thr Thr Ser Gly Ile Gly Thr
 1075 1080 1085
 Gly Ser Ser Val Glu Lys Tyr Ile Ile Asp Glu Ser Asp Tyr Met Ser
 1090 1095 1100
 Phe Ile Asn Asn Pro Ser Leu Thr Val Thr Val Pro Ile Ala Val Gly
 1105 1110 1115 1120
 Glu Ser Asp Phe Glu Asn Leu Asn Thr Glu Asp Phe Ser Ser Glu Ser
 1125 1130 1135
 Asp Leu Glu Glu Ser Lys Glu Lys Leu Asn Glu Ser Ser Ser Ser Ser
 1140 1145 1150
 Glu Gly Ser Thr Val Asp Ile Gly Ala Pro Val Glu Glu Gln Pro Val
 1155 1160 1165
 Val Glu Pro Glu Glu Thr Leu Glu Pro Glu Ala Cys Phe Thr Glu Gly
 1170 1175 1180
 Cys Val Gln Arg Phe Lys Cys Cys Gln Ile Asn Val Glu Glu Gly Arg
 1185 1190 1195 1200
 Gly Lys Gln Trp Trp Asn Leu Arg Arg Thr Cys Phe Arg Ile Val Glu
 1205 1210 1215
 His Asn Trp Phe Glu Thr Phe Ile Val Phe Met Ile Leu Leu Ser Ser
 1220 1225 1230
 Gly Ala Leu Ala Phe Glu Asp Ile Tyr Ile Asp Gln Arg Lys Thr Ile
 1235 1240 1245
 Lys Thr Met Leu Glu Tyr Ala Asp Lys Val Phe Thr Tyr Ile Phe Ile
 1250 1255 1260
 Leu Glu Met Leu Leu Lys Trp Val Ala Tyr Gly Tyr Gln Thr Tyr Phe
 1265 1270 1275 1280
 Thr Asn Ala Trp Cys Trp Leu Asp Phe Leu Ile Val Asp Val Ser Leu
 1285 1290 1295
 Val Ser Leu Thr Ala Asn Ala Leu Gly Tyr Ser Glu Leu Gly Ala Ile
 1300 1305 1310
 Lys Ser Leu Arg Thr Leu Arg Ala Leu Arg Pro Leu Arg Ala Leu Ser

1315 1320 1325
 Arg Phe Glu Gly Met Arg Asp Asn Leu Ala Pro Thr Trp Met Gly Trp
 1330 1335 1340
 Ser Ala Gly Ser Ser Pro Glu Pro Phe Ile Met Gly Gly Cys Glu Cys
 1345 1350 1355 1360
 Pro Phe Arg Ser Asn Ser Ile His His Glu Cys Ala Ser Gly Leu Ser
 1365 1370 1375
 Tyr Ile Leu Ala Asn Phe Gln His His Gly Arg Lys Phe Val Cys Trp
 1380 1385 1390
 Gln Ile Leu Pro Leu Tyr
 1395